CLAIMS

1. A mobile LAN (201) for a first number of hosts (2021, 2022, 2023, 2024) intended to communicate with a second number of hosts (219) connected to an external network (218), comprising:

   means (203) for connecting said first number of hosts to the LAN, the hosts in the first number of hosts receiving packet data from and transmitting packet data to other hosts in the first number of hosts,

   routing means (204) connected to or included in the LAN (201), and

   a mobile station (205) connected to the routing means (204);

   at least one host (2024) in the first number of hosts capable of receiving packet data from and transmitting packet data to at least one host (219), connected to an external network (218) via said routing means (204) and said mobile station (205)

   said external network (218) utilising unique globally defined addresses c h a r a c t e r i s e d in

   that a set of locally defined addresses are utilised internally in the LAN

   that storing means (206) is connected to the routing means (204) for storing a number of unique globally defined addresses of the kind utilised in the external network

   that means (207) is connected to the routing means (204) for temporary translation of an internal address of the kind used internally in the LAN (201) into a global address of the kind used in the external network (218).

2. A mobile LAN as claimed in claim 1
    c h a r a c t e r i s e d in that said temporary
    translation for data packets moving into the mobile

5   LAN via the routing means, consists in changing a
    destination address field of the data packet from said
    globally defined address into said locally defined
    address and accordingly adjusting any control field in
    the data packet.

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3. A mobile LAN as claimed in claim 1 or 2
    c h a r a c t e r i s e d in that said temporary
    translation, for data packets moving away from the
    mobile LAN via the routing means, consists in changing

15 a source address field of the data packet from said
    locally defined address into said globally defined
    address and accordingly adjusting any control field in
    the data packet.

20 4. A mobile LAN as claimed in any of the preceding claims
    c h a r a c t e r i s e d in that said routing means
    (204), said storing means (206) and said means for
    temporary translation (207) are integrated in said
    mobile station (205).

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5. A mobile LAN as claimed in any of the preceding claims
    c h a r a c t e r i s e d in that the number of
    globally defined addresses stored in said storing
    means is one.

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6. A method for establishing a packet data communication
    between a first host among a first number of
    interconnected hosts and a second host in an external
    local or wide area network utilising globally defined

35 addresses, said packet data being routed and radio

transmitted and sent over said external network,
c h a r a c t e r i s e d in the following steps:

a) utilising a set of locally and internally defined
   addresses for the packet data to be communicated by
   said first host,

b) storing a number of globally defined addresses of
   the kind utilised in the external network, and

c) temporarily translating the locally defined address
   used by the first host into one of the globally
   defined addresses stored according to step b).

7.   A method for establishing a packet data communication
     between a first host, attached to a mobile LAN, and a
     second host, connected to an external local or wide
     area network (LAN/WAN), said mobile LAN comprising
     means for connecting said first host to the mobile
     LAN, routing means connected to or included in the
     mobile LAN, and a mobile station connected to the
     routing means; said external network utilising
     globally defined addresses c h a r a c t e r i s e d in
     the following steps:

     utilising a set of locally defined addresses
     internally in the LAN

     storing a number of global addresses of the kind
     utilised in the external network in storing means
     connected to the routing means

     temporarily translating, in translating means
     connected to the routing means, the locally defined
     address used by the first host into one of the

globally defined addresses stored in the storing
means.

8.   A method as claimed in claim 7
5   c h a r a c t e r i s e d in that said translating
     terminates when said first host has not received nor
     transmitted any packet via the routing means for a
     predetermined time.

10 9.   A method according to any of claim 7 or 8
          c h a r a c t e r i s e d in

          that said translating, for packets moving into the
          mobile LAN via the routing means, consists in
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          changing a destination address field of the packet
          from said globally defined address into said locally
          defined address and accordingly adjusting any control
          field in the packet.
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10. A method according to any of claim 7 to 9
          c h a r a c t e r i s e d in

          that said translating, for packets moving away from
25   the mobile LAN via the routing means, consists in

          changing a source address field of the packet from
          said locally defined address into said globally
          defined address and accordingly adjusting any control
30   field in the packet.